Local Board of Health Annual Report

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Report

of the

Local Board of Health



THE CITY OF EDMONTON

ALBERTA

1946



BOARD OF HEALTH, 1946

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Ald. C. E. Gariepy, Chairman

Dr. R. M. Shaw Mrs. Ald. E. Browne Dr. E. A. Hay Roe Mrs. F. C. Butterworth, Edmonton Public School Board Mr. J. A. Gallant, Separate School Board

EX-OFFICIO MEMBERS

Mayor H. D. Ainlay

Dr. G. M. Little, M.O.H. Mr. A. W. Haddow, City Engineer
Catharine R. Rose, Secretary

1947

Ald. C. E. Gariepy, Chairman

Dr. R. M. Shaw Ald. J. R. Munro Dr. E.A. Hay Roe
Prof. A. Stewart, Edmonton Public School Board
Mr. J. A. Gallant, Separate School Board

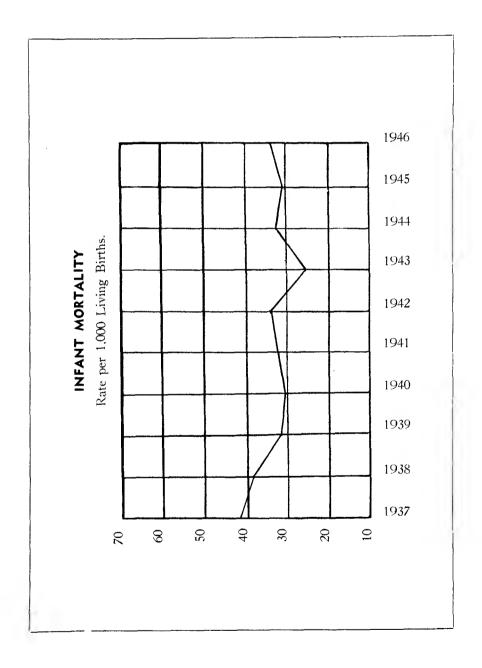
EX-OFFICIO MEMBERS

Mayor H. D. Ainlay

Dr. G. M. Little, M.O.H. Mr. A. W. Haddow, City Engineer
Catharine R. Rose, Secretary

· STAFF:	
Medical Officer of Health	Dr. G. M. Little, M.D., D.P.H.
Secretary, Board of Health	Rose, Miss C. R.
Chief Health Inspector	Methuen, A. P.
Health Inspector	Alexander, L. G.
Health Inspector	Chase, H. G.
Health Inspector	
Health Inspector	
Health Inspector	
Health Inspector	Overton, L. B.
Health Inspector	Shaw, I. D. F.
Health Inspector	Williams, J. D.
Quarantine Officer	Anderson, R. T.
Chief Food Inspector	
Dairy Supervisor	Ellinger, C.
Chemist and Milk Inspector	
Public Health Nurse	
Public Health Nurse	
Public Health Nurse	
Stenographer, sr	Derbyshire, Miss K. D.
Stenographer	
Stenographer	. Craig, Miss I. C.

CONTENTS:



Annual Report of the Medical Officer of Health

Chairman and Members, Local Board of Health, Edmonton, Alberta.

Gentlemen:

Herewith is submitted our report for 1946.

Birth Rate:

The birth rate of 28.2 per 1,000 population is the highest in eighteen years. We are still, however, considerably short of the 37.1 per 1,000 reached in 1922.

Death Rate:

A general death rate of 8.4 per 1,000 population was a small increase over the previous year. The increase was more marked, however, in certaindividual causes. Heart disease still heads the list with 227.8 deaths per 100,000, as compared to the rate of 207.6 in 1945. Ninety-one per cent of these deaths were forty-five years of age or over. Many people arrive at middle age with some degree of heart damage. An increasing percentage of our population lies in the older age groups. If longevity is hoped for, we must gauge our activities by the ability of damaged or aging heart tissues. A slight reduction in the number of cancer deaths, despite our increased population, is encouraging. If more citizens will avail themselves of the facilities for early diagnosis of this disease offered by the medical profession and the Provincial Cancer Clinic, it is reasonable to expect that we can halt its increasing mortality, even though more and more of our people are living past middle age, when cancer is most prevalent.

External causes advanced to fourth in our list of Principal Causes of Death for 1946. Two classifications under this heading were outstanding. Deaths from automobile accidents increased more than fifty per cent, and suicides were nearly trebled from the previous year. The latter reminds us that the post-war period is a time of difficult readjustment for many of our citizens.

Infant mortality showed a slight increase, and premature birth remains by far the greatest single cause of death in this class. The greatest defence available against these premature births is adequate prenatal care for the mother. Unfortunately, there are still many mothers who make little or no contact with their doctor until the time of confinement has arrived.

Communicable Diseases:

Tuberculosis remains the greatest cause of mortality amongst the communicable diseases. It brings disaster when most victims are in the prime of life and have the greatest family responsibility. Early diagnosis of this disease gives the greatest assurance of cure, and of preventing its spread. We have the means of achieving this in the chest X-ray survey units which the Provincial Tuberculosis Association and the Provincial Department of Health plan on making available to us again late in the summer of 1947. It is to be hoped that all our citizens will avail themselves of this simple and effective protection.

Measles accounted for nearly half the communicable diseases during the year. We have still no effective means of preventing the general spread of measles, but our Provincial Board of Health has made available a serum which will reduce the severity of attack in children under three years of age while still permitting the child to develop a natural immunity. It is at this early age that disasters are most likely to occur in this infection.

Whooping cough reached a remarkably low level of 92 cases for the year. We believe that the effective whooping cough vaccine now in use is in large part accountable for this comforting figure.

Immunization procedures numbering 13,141 were carried out on 4,683 children in our inoculation clinic which is open every afternoon. These were almost entirely babies and pre-school children. The School Medical Services carried out a further 7,562 such procedures in the schools.

It is interesting to calculate the saving our citizens derive from preventive services. Reducing the problem to averages, and adjusting for population, it is evident that preventive measures save our city from having 143 cases of smallpox, 500 cases of diphtheria and 780 cases of typhoid each year, as compared to thirty-five years ago. Aside from the death, disability and loss of earning power involved, this would represent a cost of more than a quarter of a million dollars to our citizens in these three diseases alone.

Child Welfare:

The number of babies and pre-school children under supervision by the Child Welfare Clinic has continued to increase. This service has, we believe, a direct influence upon our favorable infant mortality rate.

An urgent need in our city is more adequate nursing homes for babies whose parents cannot give them personal care.

Sanitation:

Overcrowding of dwelling accommodation still makes proper sanitation difficult in many parts of our city. Despite considerable building activity many of our citizens, particularly these in the lower income group, are not yet adequately housed.

A reinforced sanitary staff has permitted increased supervision of restaurants, stores, food factories and other food handling establishments. Many such establishments are only now emerging from the makeshift period forced upon us by war. Some types of equipment and plumbing are still difficult to obtain.

Constant supervision of our milk supply, with excellent co-operation from producers and distributors, has maintained a safe standard throughout the year. The demand, however, has threatened to overcome the supply at several periods; but with the co-operation of the Board of Public Utilities it is anticipated that an adequate future supply can be assured. The forced increase in cost was a disappointment to us, for we view a low cost milk supply as an outstanding protection to the public health.

General:

I have mentioned the need of homes for the care of babies. There is also an urgent need for more adequate accommodation for aged and infirm citizens. Even where moderate costs can be met, it is practically impossible for some of these older folk to find a suitable home, especially if their infirmity calls for some degree of care. It cannot be denied that some of them spend a grim period waiting to leave this world.

The capacity of the general hospitals of the City have been taxed severely during the year. Development of adequate hospital and medical facilities in the rural areas of our province may prove to be part of the answer to this problem.

We are again grateful to the Provincial Board of Health and the Provincial Laboratory for technical assistance and advice.

Respectfully submitted,

G. M. LITTLE,

Medical Officer of Health.

EXPENDITURE

1.	Salaries	38,868.41	\$ 36,394.23
2.	Supplies	1,213.09	1,077.61
3.	Transportation	5,846.06	5,360.69
-	Telephones, sundries, uniforms	1,261.24	882.24
7	Pensions Pensions	3,699,95	3,071.52
	(Bathhouse included in Acct. 1 and 2.)	,	
	<u></u>	50,888,75	\$ 46,786.29

REVENUE

		KEY EN CE		
Permits Meat Inspection License Department	\$	554.75 932.60 1,500.00	2.987.35	3,311,70
	Þ	2,987.35		\$ 43,474.59

EXPENDITURE—CLASSIFIED—1946

		Administration	Communicable Disease	Dairy Inspection	Food Inspection	Laboratory Service	Public Health Nursing	Sanitation	Vital Statistics	Bath House	TOTALS
h.	Salaries	\$ 7.751.84	\$3,073.58	\$2,539.42	\$3,288.63	\$3,165.35	\$3,381.23	\$14,420.27	\$1,093.42	\$154.67	
	Supplies							161.03		103.92	1,213.09
т.	Transportation		1,134.18	780.00	240.00	600.35	866.11	1,825.22			5,846.06
	Telephones		-	18.00	17.76	23.64	17.88	82.20			334.97
	Sundries		231.73	5.50	60.20	2.99	23,60	78.07			748.73
	Uniforms		33.23			***************************************	38.41	105.90		•	177.54
66 1	Pensions									******	3,699.95
ľ						\$3,976.27	\$4,327.23	\$16,672.69	\$1,093.42	\$258.59	\$50,888.75
ı		25.4%	9.2%				8.5%	32.8%	2.1%	.5%	100%

SUMMARY OF STATISTICS

Area of City, 26,778 acres including 1,000 acres of water and 2,147 acres in Parks.

	1946	1945	1944	1943	1942
Population	114,976	111,745	108,416	105,536	96,725
Persons per acre of land		4.1	4.0	3.9	3.8
Cost per capita		.41	.39	.38	.42
School enrolment		17,714	17,623	17,337	17,315
Natural increase of population		1,831	1,622	1,629	1,260
Total births		4,726	4,286	4,083	3,526
Resident births, only	3,251	2,695	2,447	2,443	1,972
Rate per 1,000 population.		24.1	22.6	23.1	20.3
Total stillbirths	82	83	61	67	55
Resident stillbirths only	51	53	39	33	39
Rate per 1,000 births		19.6	15.9	13.2	19.3
Total deaths		1,425	1,498	1,342	1,195
Resident deaths only		864	825	841	712
Rate per 1,000 population		7.7	7.5	7.7	7.3
Total deaths under 1 year of age		159	159	124	127
Resident deaths under 1 year of age		84	82	62	68
Rate per 1,000 living births		31.1	33.5	25.4	34.5
Maternal deaths (city only)		6	3	4	1
Rate per 1,000 births		2.22	1.25	1.63	.25
Marriages		2,098	1,839	1,640	1,590
Rate per 1,000 population		18.8	17.4	17.6	23.0

VITAL STATISTICS

Births

Births			
		1946	1945
Total births		5,455	4,726
Resident births only		3,251	2,695
Male			1,392
Female			1,303
Attended by PhysicianAttended by nurse			2,690 1
Unattended		4	4
Double births			39
Born in institutions—3,237 or 99.5%;			
Maternal Parentage:	1946	10.4	E
		194	
Canada British Isles	2,752 Or 84.1 %	2,160 or 215 or	
Europe and Asia	120 or 3.7%		7.9%
U.S.Ā.		212 or	
Other countries	14 or .4 %	17 or	.6%
Stillbirths			
		1946	1945
Total stillbirths		82	83
Resident only		51	53
Male		28	24
Female			29
Born in institutions Born elsewhere		51 	53
Cause of Foetal deaths:			
Dystocia		27	20
Prematurity		6	6
Toxaema of pregnancy	· · · · · · · · · · · · · · · · · · ·	2	2
Malformation Placenta and membranes			11
Other conditions		$\frac{1}{9}$	3 11
Deaths			
		1946	1945
Total deaths		1,576	1,425
Resident deaths only		968	864
Male			519
Female		373	345
Racial Orig	in		
	1946	194	5
Canada		326 or 3	37.8%
British Isles	$350 \mathrm{~or~} 36.1\%$	3 2 5 or 3	
Europe and Asia	181 or 18.7%	125 or	
U.S.Ā. Others	01 Or 0.4%	60 or	7.0%
Others	45 or 5.0 %	28 OF	3.2%
INFANT MORT	ALITY		
		1946	1945
Total deaths under 1 year		197	159
Resident deaths under 1 year of age		111	84
Male		70	52
Female		41	32
Infant mortality rate per 1,000 living births	·	34.1	31.1

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MORTALITY,	
NFANT	SEX

BY MONTH

BY AGE

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Female		11
Male	21 to 2	10
JATOT		111
	33b—Influenza without respiratory complications 64 —Enlarged Thymus 61 —Enlarged Thymus 84a —Mongolism 95c—Carditis 106 —Bronchits. 107 —Bronchits. 108 —Lobar pneumonia 109 —Disseminated pneumonia 112 —Status Asthmaticus. 113 —Status Asthmaticus. 114a —Gastro entertits. 1151 —Cargenital hydrocephalus. 157b —Sina bifda and meningocele. 157c —Ongenital malformations of heart experimal malformations of heart experimental medianical suffocation.	

ABRIDGED INTERNATIONAL CLASSIFICATION OF CAUSES OF DEATH, 1946

	Total	M	F Under	.1 2	•••	4	1G 6	10	15 2	20 2	255	30 35	5 40	45	0.0	55	69	66	2.5	5.5	08.8	85	90 95	2 100
6. Tuberculosis of respiratory system	20	x	!	1		1	i	- 1			_					; :	; -	3 -	: ;	2]				
7. All other forms of tuberculosis	10	. 12	: : :::	11	11	1 1'		ī			ec .	er .	çı '-			.2		1 1	† }	; =		11	1 1	
9. Syphilis	**	100	 - -		1 1	- I	: 1	1	-	-	- :		:	Ξ.		: :	: !		1.7	_ :	1 1	11	1 :	11
10. Influenza	9	. *		11	1 1	1 1	1 1	1.	1 :	-			1 1	1 :	:-			1	: ;	. 61	1 1		: :	
12. Measles	. ~	-	2 :	: 1	1:	11	: -		×		٠.			3:	۲ i		1		11		1 :	; ;		
F 14. Other infections or parasitic diseases.	្រល	. 🕶	; Y	11		: 1	1 :	:	÷ ;		1	: 1		. ~		1 1			; ;)				
15. Cancer and other malignant tumors M	146	. 22	- I :	1:	11			÷	١.	; ;	11			- 61	1	:::	12	15	20	; oc	4	: ↔		
16. Nonmalignant tumors or tumors of unspecified nature M	æ	, ic	: ·	1 4		ī :	:	-	: =	1	-		٠ . دا	4 .		٠ :	2		= :	4 -	4	4	1 1	
17. Chronic rheumatism and gout	ec	¢1	- ;	1	1	1:	٠.	1	,	: 1			: :	11	11	1	١.	×	: -	: ~	11	; ;		
18. Diabeter mellitus M	12	, rc		. 1		. :						: :			ii		: :		÷۳	1.	: -			- 1
19. Chronic or acute alcholism	-		: :	· .		11			1.4	i	11			1.	٠٠ :	٠.	П	- :	-	1 -	* :	٠.,	1 1	
20. Avitaminoses, other general diseases, diseases of blood, and chronic poisonings. M	21	1 9	. 61								-	-			"	. 61	1	. 61		1	1	. 3	:	
21. Meningitis (nonmeningococcal) diseases of spiral cord	9	7	11			1	:		- :	1 4	: :	: :	-			61	್	-	-		; (
F 22. Intracranial lesions of vascular originM	-6	55	61 1		T î	1 1	- {	1			:	1	1		_ MG	. 60	10	6	oc	10	.01	•••		
23. Other diseases of nervious system and sense organs	ي :	. rc	 2		х .	. 1	i :	: -	į .			× -		61	¢1 :	62	σ ;	7	oc :	2 -	2	₹ .		: :
24. Diseases of the heart	262 1	. 291		- 1	-	1-1					٠.	60	35 27	+4	G.	16	34	30	17	17	16	10	61	1
25. Other diseases of circulatory system M	21	15 1	I ::	- i		1:		ŧ.		1 7	: :	= ×	61	¢1 .	×	9 1	11	11 2	13	14	E 61	1.2	es es	1
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ABRDGED INTERNATIONAL CLASSIFICATION OF CAUSES OF DEATH, 1946 (Continued)

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	26091		ह्य इर	heiti	s of	lisea	.ja	lisea	ral	Other diseases of prand the puerperium	Congenital malformations, and deb premature birth, diseases percullar t	year of life	g		de	Automobila acci road vehicles)	viole) jo	or anapeaned	Total Male Total Female	Total Deaths
	r d		ırrhe	pend	зеаве	ler d	phrit	her d	erpe	her th	ngen matı	r of	nility	icide	mici	tome td v	her	USPS	leur leur	al tal I	[a]
	28. Other diseases of the resuireture evetem	, ,	29. Durrhea and Enteritis	30. Appendicitis	31. Diseases of liver and biliary passag	32. Other diseases of digestive system	33. Nephritis	34. Other diseases of urinary and genital	35. Puerperal infection.	36. Other diseases of pregnancy, childbirth and the puerperium	38. Congenital malformations, and deb premature birth, diseases perculiar t	yea	39. Senility, old age	40. Suicide	41. Homicide	42. Automobila accidents (all motor d road vehicles)	43. Other violent or accidental deaths	44. Causes of death ill-defined, unknow	Ė	Tot	Tot
	86	;	53	30.	31.	32.	33.	34	35	36.	38.		39.	40.	41.	42.	43.	44.			

PRINCIPAL CAUSES OF DEATHS-1946

			1	1946			•	1	945	
	, Total	Male	Female	% of Total Deaths	Rate per 100M Population	Total	Male	Femule	% of Total Deaths	Rate per 100M Population
90 95	Diseases of the heart	162	100	27.0	227.8	232	155	77	26.8	207.6
45— 5 5	Cancer and other malignant									
83	Intracranial lesions of	82	64	15.1	126.9	148	91	57	17.1	132.4
80—	vascular origin		40	100	010	0.0	0.0		100	00.0
163198	External causes 83	55	42 19	10.0	84.3	93	38	55	10.7	83.2
157161	Congenital debility, pre- mature birth, diseases	64	19	8.3	72.2	59	42	17	6.8	52.8
	peculiar to first year of life 76	51	25	7.8	66.0	55	33	22	6.3	49.3
107109	Pneumonia and								****	2010
	Bronchopneumonia	34	15	5.0	42.6	43	30	13	4.9	39.3
13- 22	Tuberculosis, all forms 30	13	17	3.0	26.0	28	18	10	3.2	25.0
130132	Nephritis 23	15	8	2.3	20.0	17	11	6	1.9	15.2
162	Senility 20	10	10	2.0	17.4	17	5	12	1.9	15.2
119120	Diarrhea and enteritis	9	9	1.8	15.6	11	8	3	1.2	9.8
	804	495	309	89.1						

MORTALITY FROM HEART DISEASE

Year	Total Deaths	Deaths From Heart Disease	Percentage of Total Deaths	Rate per 100M Population
1946 1945	968 864	$\frac{262}{232}$	$27.0 \\ 26.8$	$227.8 \\ 207.6$
1944	825	199	24.1	183.5
1943 1942		$\begin{array}{c} 202 \\ 197 \end{array}$	$24.8 \\ 27.7$	$191.4 \\ 203.4$

MORTALITY FROM CANCER

Year	Total Deaths	Deaths From Cancer	Percentage of Total Deaths	Rate per 100M Population
1946	968	146	15.1	126.9
1945		148	17.1	132.4
1944	825	132	16.0	121.7
1943		121	15.0	114.7
1942	712	111	15.6	1144

MORTALITY FROM INTRACRANIAL LESIONS OF VASCULAR ORIGIN

Year	Total Deaths	Deaths From This Cause	Percentage of Total Deaths	Rate per 100M Population
1946		97	10.0	84.3
1945		93	10.7	83.2
1944		84	10.1	77.5
1943		74	9.0	70.4
1942	712	62	8.7	63.9

MORTALITY FROM PNEUMONIA

Year	Total Deaths	Deaths From Pneumonia	Percentage of Total Deaths	Rate per 100M Population
1946	968	49	5.0	42.6
1945	864	43	4.9	39.3
1944	825	41	4.9	37.8
1943		47	5.8 ·	44.5
1942	712	32	4.6	33.0

MORTALITY FROM TUBERCULOSIS

Year	Total Deaths	Deaths From Tuberculosis	Percentage of Total Deaths	Rate per 100M Population
1946	968	30	3.0	26.0
1945	864	28	3.2	25.0
1944	825	26	3.1	23.9
1943	814	20	2.4	18.9
1942	712	24	3.3	24.7

MORTALITY 1	FROM	EXT	ERNAL		ES		
` [d			ge de	Automobile Accidents	3	Percentage of Deaths	rion
Year Fotal Deaths From External Causes Male	Female	Suicide	Homicide	tome	Other Accidents	rcen Deat	Rate Per 100M Popul ation
Year Fotal Death From Exter Cause	균 B	Su	Но	Au	Otl Ae	Peg	Ra 100 Po
1946 968 83 64 1945 864 59 42	19 17	25 9	1	17 11	$\frac{40}{39}$	8.3 6.8	
1944 825 40 31	9	9	•	9	22	4.8	36.8
1943 814 51 40 1942 712 38 27	11 11	5 4	 1	$^{13}_{7}$	$\begin{array}{c} 33 \\ 26 \end{array}$	$\frac{6.2}{5.3}$	
		_	SPITAL			0.0	5010
Five hundred and forty	-sevei	ı pati	ents v	vere a			
carried over from 1946 making died and 47 remained in the he						discha	rged, 15
The diseases hospitalized i	nclud		•				
Scarlet FeverScarlet Fever suspects				.s			
Diphtheria	10	M	umps	• • • • • • • • • • • • • • • • • • •		· • · · • • • · · · •	47
Diphtheria carriers Diphtheria suspects				x			
Poliomyelitis	51	W	hooping	g Cough			10
Poliomyelitis suspects Meningitis (meningococcic)	6			thalmia			
Tuberculosis	146	Sy	philis			.	2
Typhoid Fever Typhoid Fever suspect				ore Thro Angina			
Para Typhoid	1	Q	hers	· · · · · · · · · · · · · · · · · · ·		······	71
The deaths included:							
Tuberculosis Measles and Pneumonia Measles and Encephalitis	1	M	eningiti	litis is (meni nditions	ngoco	ccic)	1
measies and Micephantis	1	0,	iller co.	iditions			
COTTOO	BA TOTO	TOAT	CEDVI	ana			
SCHOOL	MED	ICAL	SERVI	Publ			Separate
				Publ School E	oard	Schoo	l Board
Complete examinationsNumber reported with defects				Publ School E 423'	oard 7 1	Schoo 6 1	1 Board 554 -30
Complete examinations	ts			Publ School E 423' 1544 2693	oard 7 1 3	Schoo 6 1	1 Board 554 -30 524
Complete examinations	ts			Publ School E 423' 1544 2693 278'	oard 7 1 3 7	School 1 5	1 Board 554 130 524 505 70
Complete examinations Number reported with defects. Number reported without defect Parents present at examination Homes visited by nurses	ts			Publ School E 423' 1544 2693 278'	oard 7 1 3 7	School 1 5	1 Board 554 :30 524 505
Complete examinations Number reported with defects. Number reported without defect Parents present at examination Homes visited by nurses. Talks to classes	ts s IMUN	VIZATI	on	Publ School E 423' 1544 2693 278'	oard 7 1 3 7	School 1 5	1 Board 554 130 524 505 70
Complete examinations Number reported with defects. Number reported without defect Parents present at examination Homes visited by nurses. Talks to classes	ts s IMUN	VIZATI	ON 2	Publ School E 423' 1544 269: 646 166	oard 1 1 3 7	School 6 1 5 3	1 Board 554 130 524 505 70
Complete examinations Number reported with defects. Number reported without defect Parents present at examination Homes visited by nurses. Talks to classes	ts s IMUN	VIZATI	ON 2	Publ School E 423' 1544 269: 646 166	oard 1 1 3 7	School 6 1 5 3	1 Board 554 130 524 505 70
Complete examinations Number reported with defects. Number reported without defect Parents present at examination Homes visited by nurses	ts s IMUN	Scarlet NIZATI 100 Pever	to Typhoid Typhoid Sever	Publ School F 423 423 424 425 4269 644 646 646 646 646 646 646 646 646 6	oard 7	School 6	1 Board 154 130 130 130 130 130 130 130 130
Complete examinations Number reported with defects. Number reported without defect Parents present at examination Homes visited by nurses. Talks to classes IM 1946 Board of Health (cases)	ts s	NIZATI	ON Topology On The Court of the Court of the Court of Typhology On Typ	Publ School F 4234 1234 1604 1604 1804 1804 1804 1804 1804 1804 1804 18	coard Choicera Choicera Choicera Choicera	School 6	1 Board 554 30 324 30 524 30 557 70 40 5 Dick 34 59 34 59 34 59 34 59 34 59 34 59 35 36 36 36 36 36 36 36 36 36 36 36 36 36
Complete examinations Number reported with defects. Number reported without defect Parents present at examination Homes visited by nurses. Talks to classes IM 1946 Board of Health (cases)	ts	NIZATI	ON Surphy Cough A Coug	Publ School F	Cholera	School 6	1 Board 554 30 324 605 70 40 34 59 34 59 34 59
Complete examinations Number reported with defects. Number reported without defect Parents present at examination Homes visited by nurses. Talks to classes IM 1946 Board of Health (cases)	ts	NIZATI	ON Cough Cough (60 Typhoid 190	Publ School F 423 423 45 10 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	oard 7 1 3 7 5 1 5 1 1 1 1 1 1 1 1 1 1	School 6	1 Board
Complete examinations Number reported with defects. Number reported without defect Parents present at examination Homes visited by nurses. Talks to classes IM 1946 Board of Health (cases)	ts s	NIZATI	ON CONTROL OF TANDON ON TA	Publ School E 424 425 4269 4269 4269 426 446 456 466 466 466 466 466 466 466 46	7 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	School	1 Board
Complete examinations Number reported with defects. Number reported without defect Parents present at examination Homes visited by nurses. Talks to classes IM 1946 Board of Health (cases) 153 Board of Health (doses 153 Board of Health (doses 153 Public School Board (cases) 224 Public School Board (cases) 224 Separate School Board (doses) 28 Separate School Board (doses) 28 Total cases 405 Materials distributed to Private Physicians 678	ts s	NIZATI	ON STATE CORRUPT CORRU	Publ School E	Coard 7 4 5 7 6 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	School 6	1 Board
Complete examinations Number reported with defects. Number reported without defect Parents present at examination Homes visited by nurses	ts s	NIZATI	ON Sign product Control of the Cont	Publ School E	Oard 7 4 8 7 7 8 9 10 10 10 10 10 10 10 10 10 10 10 10 10	9 and a line of the line of th	1 Board
Complete examinations Number reported with defects. Number reported without defect Parents present at examination Homes visited by nurses. Talks to classes IM 1946 Board of Health (cases)	ts	NIZATI 1	ON Hamboon Display	Publ School E	oard 7 4 8 7 7 8 9 10 10 10 10 10 10 10 10 10 10 10 10 10	Sehoo 6 1 5 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	No series of the
Complete examinations Number reported with defects. Number reported without defect Parents present at examination Homes visited by nurses	ts	NIZATI 1	ON Hamoon Hamoon	Publ School F 4028 4028 4028 4028 4028 4028 4028 4028	Oard 7 4 7 7 8 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	anyria 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	No series of the
Complete examinations Number reported with defects. Number reported without defect Parents present at examination Homes visited by nurses. Talks to classes IM 1946 Board of Health (cases)	ts	NIZATI 1	ON Proposition Propositio	Publ School F 424 424 425 4269 4269 426 446 456 466 466 466 466 466 466 466 46	7	ended and a second a second and	1 Board 154 130 13

COMMUNICABLE DISEASE, 1942-1946

	194	6	194	5	191	4	194	3	194	2
	\mathbf{C}	D	C	D	C	D	\mathbf{C}	D	C	D
Actinomycosis									2	
Chickenpox	934		1389		1793		745		726	
Diphtheria	3		2		5		111	1	7	2
Diphtheria carriers	5		5		16		12		4	
Dysentery							2			•
Encophalitis	4	2		1	1		3			
Erysipelas	23		19	-	17		18		17	•
Influenza	х.	6		2		6		11		8
Measles	563	1	444		2420		1926	1	673	
Meningitis (Meningococcic)	4		4		3	2	9	2	3	1
Mononucleosis (infectious)					1					•
Mumps	378		1880		397		1076		2006	
Paratyphoid	1				1		1		1	
Poliomyelitis	8				5		7			
Pneumonia (lobar)	1	8	2	15		9		11		€
Puerperal Septicacmia			×			1	•			
Rubella	183		277		77		330		653	
Scarlet Fever	173		374		1010	1	513	2	512	•
Septic Sore Throat	2	. 1.	7		4		8		24	•
Tuberculosis (Pulmonary)	78	20	64	26	69	20	133	15	68	17
Tuberculosis (other forms)	2	10		2	2	6	4	5	6	7
Typhoid Fever			2				1			
Undulant Fever	2		3		1					•
Vincent's Angina	7		28	1	20		1		1	. 1
Whooping Cough	92		237		222	2	856	2	356	1
Venereal Disease—										
Gonorrhoea	642		479		308		209		155	
G. C. Vaginitis	3		12		4		4			
Syphilis	81	4	108	5	74	6	38	7	74	5
Type Undetermined	12		5		,					
. 6	201	51	5341	 53	6449	53	5908	57	5287	47
Morbidity per 1,000 population	53.9	9	47.	6	60.	3	56.6)	54.	5
C—Cases										

D-Deaths.

During 1946 reportable diseases were responsible for 51 or 5.2 of the 968 City deaths.

Of the 51 deaths from communicable disease, 44 were over 19 years of age and 30 were due to all forms of Tuberculosis, and 4 to Syphilis.

Of the 6,201 cases of communicable disease, 2,563 or 41.3% were due to Measles; 1,378 or 22.2% were due to Mumps. There were 173 cases of Scarlet Fever or 2.7% of the total number of communicable diseases reported.

	40. of Cases	Percent K Cases	No. of Deaths	Percent of Deaths
Pre-school cases—1 to 5 years	1882	30.4	4	7.8
School cases—6 to 14 years	2919	47.1	2	2.0
Over 15	1283	20.7	45	90.2
Age not stated	97	1.4		
Armed forces	20	.4		

1946
AGE.
ΒY
DISEASE
COMMUNICABLE

Giv		Female	Under 1	1/4	5/14	15/19	Over 20	Not	Armed Outside Forces Cases	utside Jases
Chickenpox	455	479	14	255	566	23	37		22	13 6
				- !·	000		67 5			P 60 E4
Erysipelas 23 Mossipe 2563			×.68	1108	1271	31	5. 5.	18	60	24.
			- 9	221	1 827	96	2 195	28	100 :	18
							-		ì	-
Pheumonia (lobar)	- °		1	2	10					43
	183 53			48	101	15	18	4	-	<u>د</u> و
			-	40	99	0.7	; -	i	•	; ;
Septic Sore Throat Theoretoese (Pulmonary)	78. 42.	36		-	60	14	52	۲.	-	œ
	2 2			:			-	-	ī	. °
Tularaemia	:					:		÷		1 61
						-	-	7		
				1			1	:	ıç	63
Vincent's Angina.	92 45	17	17	39	36	i	T			-
Venereal Disease-										
	642 395	64			-	@ [*]	532	19	1	
***************************************	81 43	× 8	. 6		7	⊣ <i>1</i> ⁄3	99	000		
Syphilis Type Undetermined	12 7		'			61	7	60		
TOTALS65	6201 3045	3156	163	1719	2919	288	995	266	20	157
DEATHS:							•			
Encephalitis.	61 95	1 2 2	1	-			27 123			
Measles		1		;	-			:		i
	α ç	12	-	-			3°			
Tuberculosis (other forms)		10.		1	-	-	9 0 4			
Syphilis							•			
TOTALS	51 2	29 32	7	53	67		42			

COMMUNICABLE DISEASE BY SEASON AND SEX, 1946

	City	;		,		,									Outside	tside
	Cases	Male	Male Female	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Sept.	Oct.	Nov.	Dec. C	ases
Chickenpox	934	155	479	73	59	45	51	42	59	65	40	47	110	15.5	191	::
Diphtheria		υ 1	_						-	; -				1	767	9 05
Diphtheria carriers	10	577	2						•				:		-	
Encephalitis	7	. 0	10			-	-	6		2	į	:	-		-	9 0
Ervainelas		· =	- 6	Ľ	-	40	-	- د		6		:		×	× -	÷÷
Measles	2563	1250	1313	2		1 55	165	1 62	0 00 1- 00	: 00	44	06	e w	160	1 95	
Meningitis (Meningococcie)	•	-		1	•	-	100	9	2	70:	:	3	6 -	101	199	* -
Mumps	1378	652	726	×	126	166	194	162	150	8	. 95	57	- 69	: 0	7 6	- <u>2</u>
Paratyphoid	-		-		7	-3				,	2	-	3	5	5	6
Pneumonia (lobar)	-	-								_		-		:		- د
Poliomyelitis	ж	ယ္	C1					-	-	10	-					77
Rubella	183	117	130	×	<u>t-</u>	=	40	4 00	90	1 3	+ =	ıc	. 12	- 61	į-	9
Scarlet Fever	173	œ	10.5	00	9	6	6	7.6	- 1	- 67	* t~	-	19	1 6	; 0	- 5
Septic Sore Throat	C)	-	-	i	-	1	1	i		2	•	1	7		1 -	3
Tuberculosis (Pulmonary)	oc 12	15	36	ec	6	œ	- 1	1.0	or.	157	8	LC.	-	or	٠.	or
Tuberculosis (other forms)	6	63)		٥		•	2	٥	•	:		5
Tularaemia	-	•	:					1								
Tunhaid Flexer								:								9.5
Indulant Doron			·	:		ì	:	0.0	,		1	į				Ν,
Vincent's Angine	1	٠	7 -			-	×	-	٠.	-	→ ¢	:				- ,
THE CHAIN AND THE	- 00	2 !	- !	٠,	:	٠,	٠,	: '	-		æ .					7
w nooping Cougn	<u>?</u> :	ę.	4.	e.	c.	×	121	17	œ	9	¢.1	¢1	-	9	÷	_
Venereal Disease-																
Gonorrhoea	642	395	247	16	47	oc sc	17	76	53	12	10	. 65	49	39	99	
G. C. Vaginitis			ಞ		20.000		1								67	
Syphilis	≅ ?	₹ € 1	ec oc r	6	œ	oc.	ec (ומו	rt.	t~ •	t	ec e	œ,	t~	11	
Type Ondereranned	7	-	e	-		Ť	7	c.	-	-		21	-	į	:	÷
TOTALS	6201	3045	3156	363	295	393	563	903	1171	7 12	258	218	286	487	519	157
DEATHS:																
Til. 1247	•	,	,	,												
Influenza	N 19		۰,	er	-	-				-	1	-	×			-
Measles	· -		1	- 1		4		-						:	:-	į
	· oc	- 1	-	6.	: -			4		-			:			
Tuberculosis (pulmonary)	20	· oc	15	1	4	· 67	, c.	er:	,			(C)			- -	
Tuberculosis (other forms)	10	rc	rc	1		7	1	ಣ	62		-	-		1		
Syphilis	:	07	1	-	į	-	1	-	:	:	:	-	:		1	
TOTALS	15	9.9	99	9	ç	9	65	· «	00	-	-	10	-	-	٤	
	:	i	1	,	>	,	>	5	۵	4	4	:	-	-	>	

TUBERCULOSIS CONTROL

Kinsmen's Club Service:	1946	1945
Total visits by nurse	3196	3381
Visits to T.B. cases	741	664
Visits to suspect cases	134	68
Visits to contact cases	2125	2365
Not seen, moved, etc.	50	59
Co-operative visits	146	225
Provincial Tuberculosis Division:		
Examinations—		
Active cases	119	119
Suspects	167	99
Suspects Contacts		99 306
-	511	
Contacts	511 10 6 9	306
Contacts Non-contacts	511 1069 2883	306 1013
Contacts Non-contacts Total examinations	511 1069 2883 2731	306 1013 2397
Contacts Non-contacts Total examinations Total X-Rays	511 1069 2883 2731 1598	306 1013 2397 2161
Contacts Non-contacts Total examinations Total X-Rays Tuberculin tests made	511 1069 2883 2731 1598 575	306 1013 2397 2161 1128

PUBLIC HEALTH NURSING

Again we had a very busy year at the Baby Clinic having a large number of very young babies. 2,209 new admissions were made with 97 readmissions making a total of 2,306 and being 411 above the previous year.

At intervals during the year we encountered diarrhea in the new baby, at times quite serious.

One hundred and fifty-three out-of-town cases were in attendance and 66 letters were written with regard to the care and feeding of babies.

	1946	1945	1944	1943	1942
Number of clinics held	200	200	200	150	101
Babies in attendance (under 2 years)	6857	6208	6198	5649	4905
Pre-school in attendance	1310	1212	1158	1067	1146
Total	8167	7420	7356	6716	6051
Average	41	37	37	45	60
New cases admitted, babies	1881	1523	1378	1320	1119
New cases admitted, pre-school	328	281	262	240	61
Babies referred to family doctor	1.0	9	25	31	21
Pre-school referred to family doctor	21	16	20	36	24
Re-admitted babies	4	10	11		
Readmitted pre-school	93	81	81		

Dr. Mildred Newell was in attendance at the Tuesday clinics as usual, and Dr. Margaret Collins, attended the Friday clinics on the retirement of Dr. Folinsbee.

B.Sc. and Public Health nurses from the University of Alberta were with us for observation at Clinics and field work. We also had nurses from the Royal Alexandra hospital at the clinics.

Miss Blanche Emerson retired on December 1st, and since that time Miss E. Lee has been on duty.

One thousand, two hundred and thirty-six visits were made to babies and 249 to pre-school children.

VICTORIAN ORDER OF NURSES

	1946	1945	1944	1943	1942
Pre-natal visits	198	422	545	347	399
Obstetrical (nursing care)	0	8	19	87	77
Obstetrical (advice)	1333	1182	1147	1157	69 3
Newborn (nursing care)	657	559	666	743	453
Newborn (health supervision)	1796	1654	1373	1287	857
Pre-natal clinics	49	51	49	46	49
Total attendance	577	768	982	658	500
Average attendance	12	15	20	14	10
Mothers enrolled	115	136			



HEALTH INSPECTIONS

INSPECTIONS:		
	1946	1945
Dwellings	. 1,048	9,479
Hotels, lodging houses, apartment blocks	. 936	1,147
Schools, blocks, public buildings	. 15	38
Stores, business establishments	. 769	965
Food handling establishments		2,598
Garbage cans, etc.		1,970
Streets, lanes, yards, dumps, etc.		2,186
Miscellaneous		3,188
	10,205	21,571
Re-inspections	. 571	4,552
Visits assisting quarantine officer		55
NOTICES: Written Verbal Garbage	2,464	2,042 4,895 1,038
COMPLAINTS:		
Received from public	648	602
Justified	601	565
Received from other departments	. 10	27
Referred to other departments	. 74	52
The complaints were made up as follows:		
Garbage, streets, lanes, etc	233	186
Vermin		147
Housing, plumbing and drainage	230	190
Food and drink	40	29
Miscellaneous	. 80	50
LICENSES:		
License applications investigated	2,660	2, 392
PLUMBING:		
Sewer and water notices issued	9	7
Sewer and water installed, buildings removed, etc		35
Extension of time granted		30
Plumbing permits issued		1,244
Plumbing permits issued for old buildings	33	44
Alterations to existing plumbing (fixtures)		1,232
Privies eliminated through installation of plumbing	33	44
Number of septic tanks installed	. 8	5

DISINFESTING STATION:

Baths 3,79 Verminous	7 3 409 3 411 4 2,504 3 7,206
SCAVENGING CLEAN-UP WORK	
Refuse removed during Clean-up Week (cubic yards)10,85	0 8,140
ANIMALS, BARNS, STYES:	
Cow owners	9 392
Hog owners	
Goat owners	
Fur Farm owners	4 04
FOOD:	
	5 12
Foodstuffs condemned (lbs)	0 1.588
WATER:	
" att bumples terren	3 14
Negative1	
2 00.00	1 3
*Suspicious	1 3 2
Wells placarded	2 . 2
Ice samples	$\frac{1}{1}$ $\frac{1}{2}$

^{*-}Wells condemned or further samples taken after chlorination.

HOUSING:

There were 1,048 dwellings and 936 hotels, lodging houses, apartment hlocks, etc. checked for vermin, overcrowding and other insanitary conditions. Notices were issued where necessary.

POISON GAS FUMIGATION:

The use of DDT for destruction of vermin has greatly reduced the use of hydrocyanic acid gas for this purpose. In only sixty cases was the gas employed during the year.

ENFORCEMENT OF REGULATIONS:

Prosecutions		0	3
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FOOD INSPECTION

MEATS INSPECTED AND CONDEMNED

MEATS INSPECTED AND CONDE	MNED		
Beef:			
No. of carcasses inspected	1946 3,026 10	1945 2,623 37	1944 3,206 26
Portions condemned	249	189 19,960	293 19,285
Veal:			
No. of carcasses inspected Carcasses condemned	2	$\substack{2,075\\3}$	$\substack{2,137\\5}$
Portions condemned		$\begin{array}{c} 32 \\ 1,245 \end{array}$	$\substack{55\\1,640}$
Mutton:			
No. of carcasses inspected Carcasses condemned	3	$\substack{\textbf{1,634}\\\textbf{13}}$	$\frac{1.850}{17}$
Portions condemned	$\begin{array}{c} 65 \\ 270 \end{array}$	59 815	$\substack{102\\1,130}$
Pork:			
No. of carcasses inspected Carcasses condemned	$3,304 \\ 65$	$\substack{4,656\\58}$	3,721 57
Portions condemned Weight (lbs.) of carcasses and portions condemned	986	1,399 28,3 0 5	$978 \\ 22,710$
Totals:			
No. of carcasses inspected	80 1,349	10,988 111 1,679	10,914 105 1,428
Weight (lbs.) of carcasses and portions condemned		50,325	44,765
CARCASSES FOUND TO BE INFECTED	WITH	T.B.	
Beef:			
Infected	$\frac{11}{.363}$	$\begin{array}{c} 13 \\ .495 \end{array}$.230
Pork:			
Infected Percent	$\begin{array}{c} 565 \\ 17.10 \end{array}$	$712 \\ 15.29$	$\begin{array}{c} 524 \\ 14.08 \end{array}$
CHIEF CAUSES OF CONDEMNATION	N, 1946	6	
Beef:	arcasses	Portions	Weight Lbs.
Abscess Actinomycosis	 1	84 85	$\frac{1,010}{2,245}$
Adhesions		12	180
Bruised Parasites	6	$\begin{array}{c} 6 \\ 34 \end{array}$	3,030 365
Tuberculosis		12	220
Jaundice		14	165
not bled, stomatitis)	3	2	1,460
	10	249	8,675

Veal: Abscess Actinomycosis Parasites Bruised Miscellaneous (adhesions, jaundice, immaturity)	1	Portions 18 9 12 5 5	Weight Lbs. 190 135 120 385 110 940
Mutton:			
Parturition Parasites Not bled		65 65	135 85 50 ————————————————————————————————
Pork:			
Adhesions Abscess multiple Arthritis Bruised Contamination Parasites Tuberculosis Pneumonia Rhinitis Miscellaneous (abscess, peritonitis, bull nose pneumonia, septicaemia, infection)	13 11 3 8 16 3	37 3 29 64 133 710 6 4	1,080 2,590 1,675 1,125 1,035 290 11,965 2,900 560 1,545 24,765
DISEASED ANIMALS			
Beef Veal Mutton Pork Total amount of meat condemned	38 63 788	1945 164 26 22 770 50,325	1944 238 48 102 674 44,765
FOODSTUFFS CONDEMNED BY IN	SPECTO	RS	
Canned goods Fruit and vegetables Meat Fish Poultry Cheese Damaged by Fire Sundries	256 198 2	15 154 1,140 250 29	105 61 193 2,424 80
Total (lbs.)	279,710	1,588	2,863

DAIRY INSPECTION

1946

Certificates issued Producer-distributors, raw milk	15
Certificates issued Producer-shippers, milk	285
Certificates issued Producer-shippers, cream	36
Certificates issued Pasteurization Plants	5
Inspections of Producer-distributors and Dairies	79
Inspections of Producer-shippers' Dairies	1,105
Inspection of Pasteurization Plants	54
New Dairy Barns erected	18
Dairy Barns remodelled	4
New Milk Houses erected	21
Certificates suspended temporarily	125
Certificates suspended indefinitely	
Applications for certificates of registration refused	
Certificates issued to retail distributors	381
Permits issued to cowkeepers in the city	209
Reduction tests, milk	12,877
Reduction tests, cream	52
Sediment tests	76 9
Butterfat tests	784
Phosphatase tests	279
Bacterial plate counts, milk	465
Bacterial plate counts, ice cream	52
Chlorine tests at dairy farms	30
Well water samples taken at dairy farms	
Milk can condemned	••••
Written notices to dairy premises	125
Educational circulars to cream producer-shippers	
Prosecutions	

During 1946 the number of producer-distributors of raw milk decreased from fifteen to twelve.

LABORATORY REPORT

Laboratory control work and plant inspection has been carried on much as in previous years. Our demand for milk still seems to outrun our efforts to provide satisfactory supply.

There were 776 retail milk samples taken during the year, all of which were examined for butterfat content, solids not fat, sediment and flavor. Methylene Blue reductive tests were also carried out on all these samples and over half submitted to test for bacteria count. On these exceeding 50,000, duplicate samples were taken within a short time for re-count. The pasteurized milk samples were also examined at least twice a month by the phosphatase test. A summary of the results obtained is given in the following tables.

Table	No.	1,	Retail	Milk	Samples-Bacteria	Counts

Sı	pecial	15,000/ 40,000	40,000/ 100,000	100,000/ 300,000	Over	Spreader	Total
January	31	6					
•			2	****		1	40
February	31	5	5			1	42
March	20	13	9	5			47
April	25	9	6		3		43
May	25	12	2		2		41
June	30	6	3	3	1		43
July	30	3	3				36
August	22	11	7	1		1	42
September	9	6	1	2	1		19
October	26	10	2				38
November	20	9	9	2			40
December	24	6	3	1			34
	2 93	96	52	14	7	3	465
Percentage	. 63.4	20.8	11.3	3	1.5		100

The three results lost by the growth of spreaders are excluded in calculating the percentage in each group.

These results are also shown broken down into the different groupings in the following tables:

Table No. 2

	Special	15,000/ 40,000	40,000/ 100,000	100,000/ 300,000	Over	Spr.	Total
Raw Milk	85-42.1%	57-28.2%	44-21.8%	12- 5.9%	4-2.0%	1	203
Pasteurized	121-80.6	25-16.6	2- 1.3	167		1	150
Jersey	31-75.5	6 - 14.7	3- 7.4		1-2.4		41
Homogenized	56-78.9	8-11.2	3- 4.3	1-1.4	2-2.8	1	71
	293	96	52	14	7	3	465

Table No. 3

	Number	Average
Retail samples, butterfat	. 776	3.74%
Retail samples, solids not fat	. 776	8.60%
Retail samples, sediment	. 769	9.4 %
Special creams—butterfat	. 30	10.03%
Special milks—butterfat	. 82	3.53%
Chocolate Milks, butterfat	. 83	2.29%
Phosphatase tests	. 279	

Special samples were taken for the army supply depot and for one of the railways and given the usual tests. As the military authorities attach considerable importance to the test for coliform oranisms this test was done on all their samples. The results are as listed:

Table No. 4, Bacteria Counts-Special Milks and Creams

Special Creams	30-12	in	Special	Class
Special Milks	96-53	in	Special	Class
Chocolate Milks	83-58	in	Special	Class
Ice Cream	52-12	in	Special	Class
Rinse Bottles	Nil			
Special Milks, coliform organisms	55			

The major portion of the work is still the control of the raw milk as received at the dairy plants. The number of shippers and number of samples are still increasing. Due to the necessity of taking on many producers not previously under supervision and also to the fact that due to recurring milk shortages, we have been forced to carry on with shippers who would normally be suspended. The number of tests under the required $5\frac{1}{2}$ hours has considerably increased. The results of the methylene blue tests both on these plant and retail samples are as listed.

Table No. 5-Methylene Blue Tests

	Number	Under 5½ Hours
Producer's Milk	13,161	1,242
Retail Samples	794	
Special Tests	51	

Regular inspection and supervision has been given as previously to the operation of the swimming pools, both City and privately owned. Test solutions and apparatus have been made up and supplied as needed and samples of the water and occasionally of the sterilizing agents taken for examination. There were 182 samples of pool water examined from city pools of which 31 failed to meet the accepted bacterial standard. (This does not constitute a failure in compliance as under the standards used a certain small proportion are allowed to exceed the maximum if they are not closely recurrent.) In 9 samples the examination was spoiled by the growth of spreaders. There were 85 samples taken from the private pools of which 13 gave counts below standard. None of the samples showed presence of coliform organisms in amounts tested.

Samples of tap water were examined for us almost daily by the Provincial Laboratory. Out of 275 samples so tested, 230 gave counts of 10 or under while only 6 gave over 50. Daily checks were made on the chlorine in the water and the close collaboration was maintained with the water treatment at all times.

Occasional visits have been made to the various sewage plants which have been carrying on satisfactorily.

